GOVERNMENT OF INDIA
NON-CONVENTIONAL ENERGY SOURCES
LOK SABHA

UNSTARRED QUESTION NO:776
ANSWERED ON:18.07.2002
POTENTIAL OF WIND POWER
PRAVEEN RASHTRAPAL

Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the details of the potential of wind power generation in the country, State-wise;

(b) the actual utilization of the potential of wind power in the country, State-wise;

(c) whether wind power generation is much cheaper and non-pollutant; and

(d) if so, the cost of generation per unit and the capital investment required to install such a power plant?

Answer

MINISTER OF STATE FOR NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN)

(a)&(b): The gross wind power potential in the country has been estimated at about 45,000 MW. The technical potential, which can be tapped at present is, however, about 13,000 MW. A total wind power capacity of 1628 MW has so far been installed in the country. A Statement on the gross and technical potential, and installed capacity, State-wise, is given in the Annexure.

(c)&(d): The generation of power from wind is non-polluting and environmentally benign. The levelised cost of wind power generation compares favourably with cost of conventional power, taking into account various fiscal and promotional incentives available for wind power projects. The capital cost of wind power varies between Rs.4.5 crore to Rs.5 crore per MW, and the cost of generation ranges between Rs.2.25- Rs.2.75 per unit depending upon the site.
ANNEXURE

Annexure referred to in reply to parts (a) & (b) of Lok Sabha Unstarred Question No. 776 for 18th July, 2002.

STATE-WISE GROSS AND TECHNICAL POTENTIAL & WIND POWER INSTALLED CAPACITY (AS ON 31.03.2002)

S.No.	State	Gross Potential (MW)	Technical Potential (MW)	Total installed Capacity(MW)
1.	Andhra Pradesh	8275	1750	92
2.	Gujarat	9675	1780	167
3.	Karnataka	6620	1120	69
4.	Kerala	875	605	2
5.	Madhya Pradesh	5500	825	23
6.	Maharashtra	3650	3020	399
7	Orissa	1700	680	
8.	Rajasthan	5400	895	16
9.	Tamil Nadu	3050	1750	857
10.	West Bengal	450	450	1
11.	Others			2

Total	45195	12875	1628